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(19) **United States**(12) **Patent Application Publication****Ray et al.**(10) **Pub. No.: US 2021/0254073 A1**(43) **Pub. Date: Aug. 19, 2021**(54) **METHODS FOR CAPTURE AND ANALYSIS OF MACROMOLECULAR COMPLEXES***C12Q 1/6869* (2006.01)*G01N 33/543* (2006.01)(71) Applicant: **Cornell University**, Ithaca, NY (US)(52) **U.S. Cl.**CPC *C12N 15/115* (2013.01); *G01N 33/54306* (2013.01); *C12Q 1/6869* (2013.01); *C12Q 1/6844* (2013.01)(72) Inventors: **Judhajeet Ray**, Ithaca, NY (US);
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The present application relates to a method for analyzing a molecular target in a sample. The method involves providing an aptamer, wherein the aptamer is a high affinity binding partner to at least a portion of the molecular target in the sample. The aptamer is contacted with the sample containing the molecular target under conditions effective for the molecular target and aptamer to bind to each other. The molecular target is separated from the sample to form a molecular target enriched sample. The separated molecular target of the enriched sample is then analyzed.

Specification includes a Sequence Listing.